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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,435	07/05/2001	Anand Rangarajan	10559-428001/P10442	4978
20985	7590	07/12/2005	EXAMINER	
FISH & RICHARDSON, PC			CHO, HONG SOL	
12390 EL CAMINO REAL			ART UNIT	PAPER NUMBER
SAN DIEGO, CA 92130-2081			2662	

DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

5m

Office Action Summary	Application No.		Applicant(s)	
	09/900,435		RANGARAJAN ET AL.	
	Examiner		Art Unit	
	Hong Cho		2662	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Response to Amendment

1. This office action is a response to the amendment filed on 5/11/2005. Claims 15-18 were canceled. Claims 1-14 are pending in the instant application.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-4, 7, 8, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogle in view of Wilford et al (US 6687247), hereinafter referred to as Wilford.

Re claims 1-4, 7, 8, 13 and 14, Ogle discloses a system for routing a data packet on networks comprising a control element for managing routing tables (*a master routing device maintains a routing table*, column 4, lines 55-63), forwarding elements each receiving one of the routing tables from the control element (*a routing table is broadcast to each routing device from a master routing device*, column 2, lines 20-23) and forwarding the data packet according to the received routing table and a destination address in the data packet (column 5, lines 1-17) and a private LAN that connects the control element and the forwarding elements which are distributed across the private

network (figure 1; column 5, lines 1-3). Ogle fails to disclose forwarding elements decrementing the time to live (TTL) counter if the packet is received from one of the external networks and not decrementing TTL counter if the packet is received from the private network. Wilford discloses decrementing TTL field for tagged packets and leaving the TTL field untouched as packets go through the router (column 16, lines 15-33). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Ogle to adopt the function of Wilford in manipulating the TTL field of packets so that the tag network (private network) would be considered as a one-hop router by not reflecting the exact number of routers traversed on the path.

Claims 5, 6 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogle in view of Wilford and further in view of Anderson.

Re claims 5 and 6, Ogle discloses all of the limitations of the base claim, but fails to disclose routing table received by any of the forwarding elements includes an interface port of the forwarding element through which the remote network is accessible by the forwarding element and a gateway to which the network is directly connected. Anderson discloses a routing table including gateway and interface port information. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the routing table of Ogle to include interface port and gateway information. The motivation to modify is to provide necessary routing information needed to route packets

at a given router since Ogle discusses routing, therefore, it is required to have a routing table to route packets.

Re claims 9 and 10, Ogle discloses all of the limitations of the base claim, but fails to disclose modifying an interface port to indicate a port of the forwarding element through which the network is accessible by the forwarding element for each of the networks in the routing table before sending the routing table to one of the forwarding elements. Anderson discloses creating a routing table by a network administrator. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the routing table of Ogle by manually so that benefits of static routing such as reduction in overhead on the router CPU, no bandwidth usage between routers and network security since the administrator only allows routing to certain networks are obtained.

Re claims 11 and 12, Ogle discloses all of the limitations of the base claim, but fails to disclose modifying a gateway field to indicate one of the forwarding elements to which the network is directly connected for each of the networks in the routing table before sending the routing table to one of the forwarding elements. Anderson discloses creating a routing table by a network administrator. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the routing table of Ogle by manually so that benefits of static routing such as reduction in overhead on the router CPU, no bandwidth usage between routers and network security since the administrator only allows routing to certain networks are obtained.

Response to Arguments

4. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Cho whose telephone number is 571-272-3087. The examiner can normally be reached on Mon-Fri during 7 am to 4 pm.

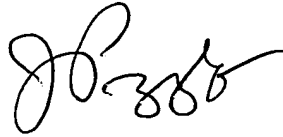
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3088.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

hc
Hong Cho
Patent Examiner
7/1/2005


JOHN PEZZLO
PRIMARY EXAMINER